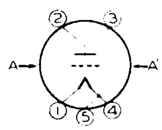
958-A

AMPLIFIER TRIODE

ACORN TYPE

Filament	Coated	
Voltage	1.25	d-c volts
Current	0.10	amp.
Direct Interelectrode Capacitances:°		
Grid to Plate	2.6	μμf
Grid to Filament	0.6	μμf
Plate to Filament	0.8	μμf
Overall Length		1-7/32" ± 5/32"
Overall Diameter		1-3/32" ± 1/16"
Bulb	*See Outline in GENERAL SECTION*	T-4½
Base		Small Radial 5-Pin
Pin 1 - Filament +		Pin 5 - Filament -
Pin 2 - Plate		AA' - Plane of Electrodes
Pin 3 - Grid		
Pin 4 - Filament -		
RCA Socket		Stock No. 9925
Mounting Position		Vertical◊



Short Part of Bulb: Bottom
BOTTOM VIEW (5BD)

Maximum Ratings Are Design-Center Values

A-F AMPLIFIER

D-C Plate Voltage	135 max.	volts
D-C Plate Current	5 max.	ma.
Plate Dissipation	600 max.	mw
Characteristics — Class A_1 Amplifier:		
D-C Plate Voltage	135	volts
D-C Grid Voltage*	-7.5	volts
Amplification Factor	12	
Plate Resistance	10000	ohms
Transconductance	1200	μmhos
D-C Plate Current	3	ma.

R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Key-down conditions per tube without modulation#*

D-C Plate Voltage	135 max.	volts
D-C Grid Voltage	-30 max.	volts
D-C Plate Current	7 max.	ma.
D-C Grid Current	1 max.	ma.
D-C Plate Input	950 max.	mw
Plate Dissipation	600 max.	mw
Typical Operation at Moderate Frequencies:		
D-C Plate Voltage	135	volts
D-C Grid Voltage●	-20	volts
	20000	ohms
	2500	ohms
Peak R-F Grid Voltage	40	volts
D-C Plate Current	7	ma.
D-C Grid Current**	1 approx.	ma.
Driving Power**	35 approx.	mw
Power Output	600	mw

°, #, ◊, *, **, ●: See next page.

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AMPLIFIER TRIODE

(continued from preceding page)

° With no external shield.

◇ Horizontal operation permitted if plane of electrodes is vertical (plate on edge).

* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.1 megohm with fixed bias, or 0.5 megohm with cathode bias.

⁂ Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

● Obtained by a grid resistor (20000), cathode resistor (2500), or fixed supply.

** Subject to wide variation as explained under Tube Ratings in General Section.

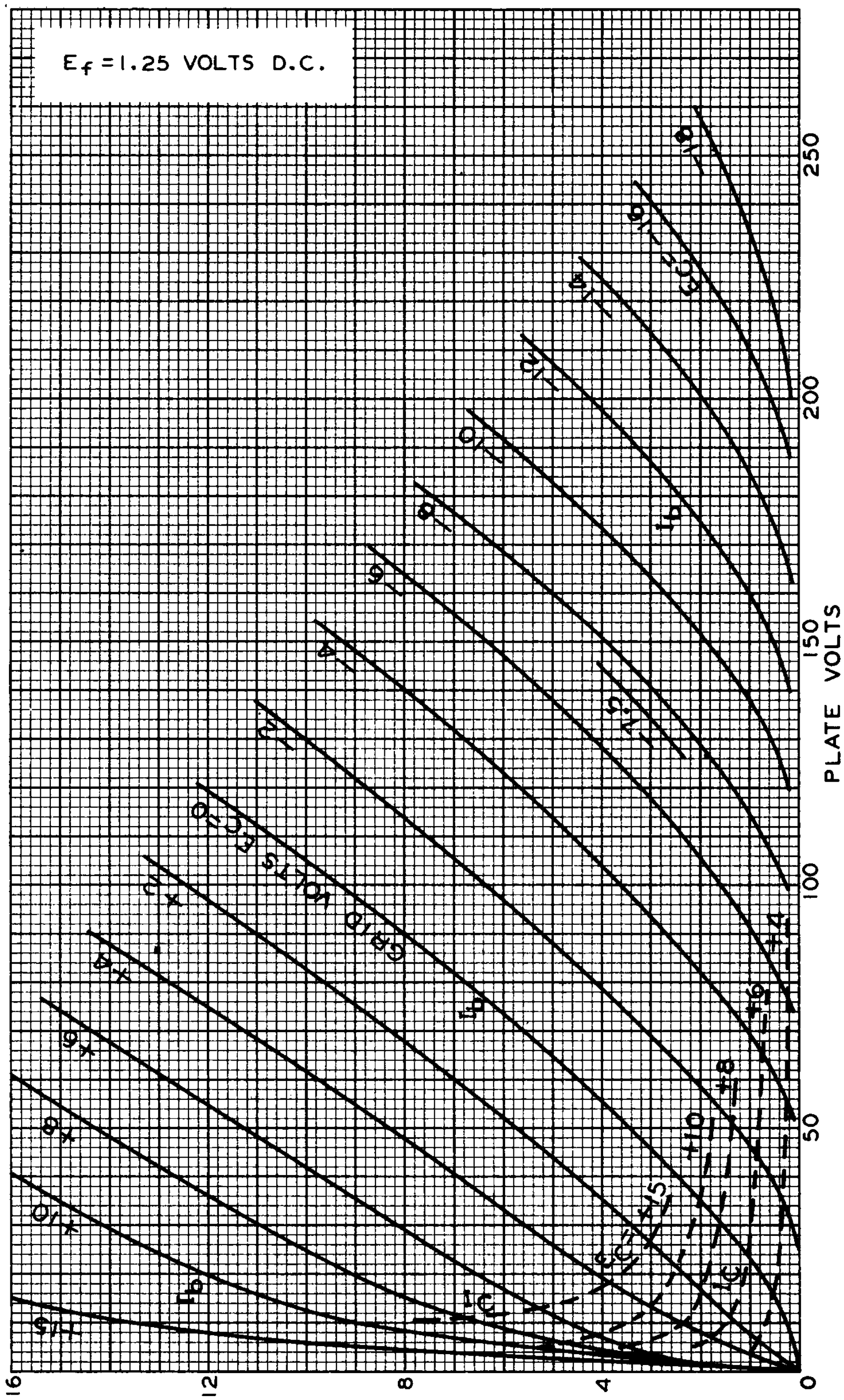
NOTE: The 958-A is capable of producing a useful power output at frequencies up to approx. 350 megacycles.

R-F grounding by means of condensers placed close to the tube pins is required if the full capabilities of the 958-A for ultra-high-frequency uses are to be obtained.

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AVERAGE PLATE CHARACTERISTICS



JUNE 15, 1944 RCA VICTOR DIVISION 92CM-6334R1

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